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(71) Applicant (for all designated States except US): **GLUCON INC.** [US/US]; 644 COLLEGE AVENUE, BOLDER, CO 80302 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **PESACH, Benny** [IL/IL]; 18 SHIR HASHIRIM STREET, 48072 ROSH-HA'AYIN (IL).

(74) Agents: **FENSTER, Paul** et al.; P.O. BOX 10256, FENSTER & COMPANY, INTELLECTUAL PROPERTY 2002 LTD., 49002 PETACH TIKVA (IL).

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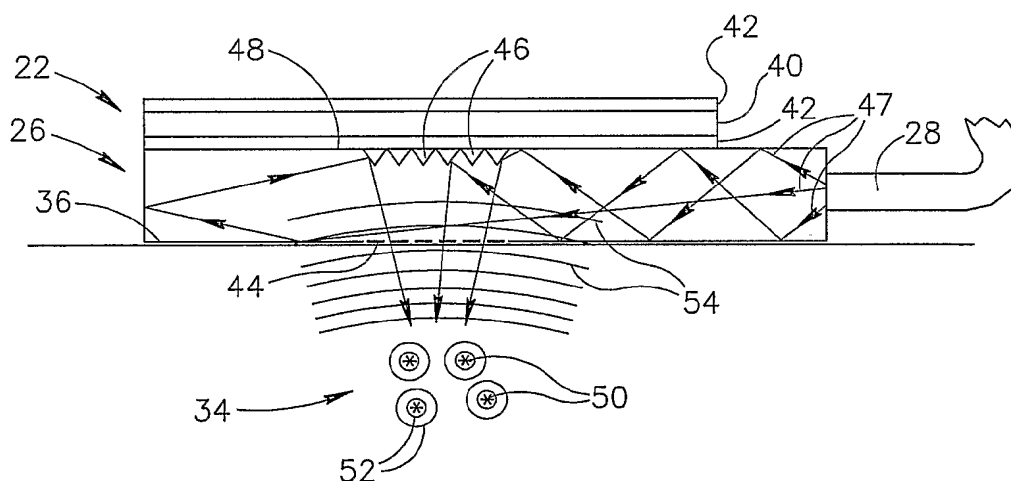
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(54) Title: PHOTOACOUSTIC SENSOR



(57) Abstract: Apparatus for stimulating photoacoustic waves in a region of a body and generating signals responsive to the stimulated waves comprising: a light source (27) that provides light that stimulates photoacoustic waves (54) in the region; a light pipe (26) having an output aperture (80) and at least one input aperture, which light pipe receives the light from the light source at the at least one input aperture and transmits the received light to illuminate the region from the output aperture; and at least one acoustic transducer (22) that generates signals responsive to acoustic energy from the photoacoustic waves that is incident on the optical output aperture.



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